

# NC-scriber CS 100

*Sets a new standard  
for lettering &  
symbol machine  
technology:  
more convenient,  
more compact,  
easier to use.*





# NC-scriber CS

## The way to perfect lettering

The large LCD display guides you each step of the way to perfect lettering. The choice of operating modes and functions are clearly visible. Six different menu displays make it easy to select and design the lettering you want. The whole process is fast—and self explanatory!

### At first glance:

- Self-contained—no separate control unit. Large, easy to read 36-character display.
- Large positive-action keyboard, Qwerty or Alpha-numeric—your choice!
- New Generation (SMD technology) compact plug-in memory modules for instant switching of lettering styles and symbol programmes.
- Large 190 x 45 mm drawing area.

ABC DEFGH  
RASTER  
012345  
ABCDEF  
abcdef  
3.5mm STANDARD  
30mm max

ISO 3098/1  
DIN 17  
UNIVERSAL  
DIN 1451  
DIN 17 TECH.  
( ) ? ' / & % ! ; = □  
Bonne  
HUYMMH  
ASDE  
SCRIBER

ABCDEFGH  
ABCDEFGH  
FDRE098731  
AB  
0123456789  
VBJYUXF

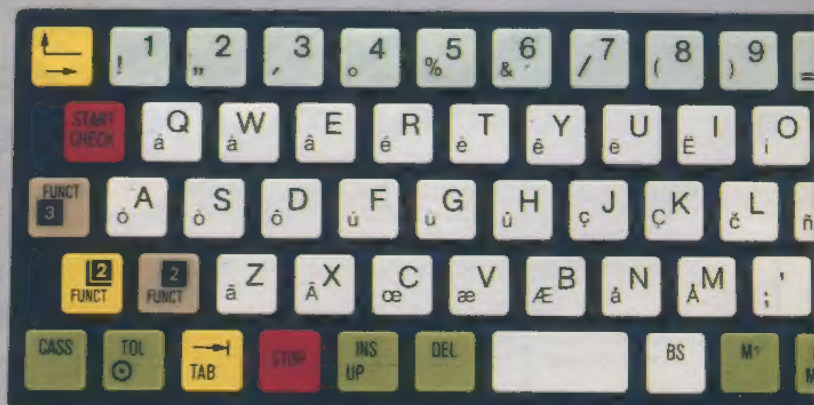
# NC-scriber

Scale plates available  
for all draughting machines

rotring  
NC-scriber CS 100

2.FUNCT  
FIX

THIS IS THE NEW NC-SCRIBER



Compact memory modules  
plug directly into top of  
keyboard

Lower edge of keyboard unit  
is designed for parallel motion drawing boards



## At a second glance:

- CS100 is complete with four pre-programmed, widely used lettering styles: ISO 3098/1, ISO 3098 Technical, DIN 17 Technical and Universal.
- Extensive range of decorative type-face styles available on individual plug-in memory modules.
- Extensive range of Symbol memory modules available – covering all major industries.
- Large memory capacity available to store your standard notes and texts. One hundred different memory banks available with a total capacity of four thousand characters.
- Blank memory modules available for storage of your own programmes.
- User-friendly prompts make operation easy.

## Menu Displays

- Menu 1** Letter height, width, inclination & character spacing
- Menu 2** Block text position, Framing (square and rounded), Metric/Imperial selection, Memory manipulation and restoration, Automatic Kerning On/Off, Writing speed.
- Menu 3** Monitor function, Raster function, line types (choice of 4), Dash length, dot/dash spacing – all variable.
- Menu 4** Rotation of text and symbols, scaling up and down, mirroring and line spacing.
- Menu 5** 'Broad-Nib' Calligraphy effect, programme storage onto blank memory module, text ranging (left and right), centering and justification.
- Menu 6** Selection of the four pre-programmed widely-used text styles, ISO 3098/1, ISO 3098 Technical, DIN 17, Technical and Universal.

*High flexibility for precision technical drawings and impressive presentation documents:*

NC-Scriber  
NC-Scriber

Letter height, width and inclination can be set, by the user, to your everyday standard requirements. These settings are retained even when the Scriber is switched off – no need to reprogramme at the start of each job.

P.FUNCT  
FIX

rotri

With the monitor function, text can be checked after input, and if necessary corrected, before actual writing.

AWAY AWAY

A special kerning function can be selected. This automatically adjusts character spacing, for a 'typeset' look.

NC-Scriber

Words or portions of text can easily be underlined with the UL function.

ABCDEF ABCDEF  
ABCDEF ABCDEF  
ABCDEF ABCDEF

Line spacing can be either freely selected by the user or automatically set proportional to the character height chosen.

→ TAB

Up to 40 tabs can be set.

Four types of line are provided. The dash length and spacing of broken lines can be freely adjusted to suit your requirements.

NC-Scriber  
NC-Scriber  
NC-Scriber  
NC-Scriber

Text can be ranged left, centred, ranged right or 'justified', to fit any selected column width.

A A A A A A

Different character heights are possible on the same base line.

rotring UK 01234  
cs 100 Scriber ABCD

Text can be enclosed by a square cornered or rounded frame.

abcDE

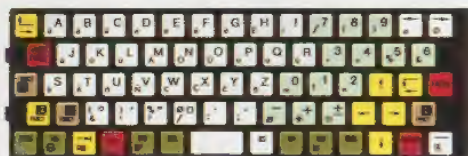
With a Broad-nib 'Calligraphy' function, you can give text a classical look.

Symbols used in all major industries can be accessed from plug-in memory modules. Customer-specific memory modules can be produced by rotring to special order.

**Quick-change keyboard feature.**  
Coin-out a Qwerty-snap in an Alpha-numeric, that's all there is to it, the Scriber is automatically re-programmed to accept commands from the new keyboard.



# Accessories for the NC-scriber CS100



The CS100 is supplied with a Qwerty keyboard as standard. Two other snap-in keyboards are available as optional extras – Qwerty with additional maths/technical symbols and Alpha-numeric.

Qwerty with additional symbols  
Alpha-numeric

Article no. 691154  
Article no. 691155

You benefit from our superior technology and design.

We lead the field in the NC-Scriber development!

The application of state of the art SMD (surface mount) technology has enabled us to pack a high-density memory into a compact module.

Further use of up-to-date minimisation techniques has allowed us to build the operating computer into the keyboard—previously a separate operating unit was required.

Our flush-fitting memory modules plug directly into the top of the keyboard—the CS100 means a neat, uncluttered workplace.

## Technical specification CS100

### After-Sales Service and Support

In this modern age we rely on advanced technology in our day-to-day work. We know how inconvenient it can be when a machine 'goes down', or when a new operator does not fully understand the operation or fully utilise the capabilities of a machine.

Because we understand the problems we can provide the solutions.

Before any NC-Scriber is despatched it is fully tested—twice.

Our NC-helpline is available to all NC-Scriber users and we can provide fast, efficient nationwide service back-up.

You can rely on rotring—and the CS100!



### Memory Modules

The entire contents of the working memory can be loaded into one battery-buffered read/write cassette, allowing work to be archived. The capacity of one cassette is 4K, equal to the capacity of the working memory.



The CS100 is pre-programmed with a selection of four typefaces. These further typefaces are available on plug-in memory modules:

### Lettering Modules

- DIN 1451
- Cyrillic
- Greek
- Block medium
- Block outline
- Block light
- Garamond pen
- Gothic light
- Mascot outline
- Romanic outline
- English Old Style
- Futura Pen
- Futura Round Pen
- Tectona
- Univers 57 outline
- Bonne



Symbol libraries are available, on plug-in memory modules for all major industries.

### Symbol Modules

- Electrical engineering
- Architecture
- Electronics
- Mechanical engineering, Welding, Nuts and bolts
- Hydraulics/pneumatics
- Heating, ventilation, and plumbing
- Process engineering
- Decora

Customer-specific symbol libraries can be prepared to special order.

### Lettering Machine

Dimensions	330 x 168 x 43 mm
Weight	approx. 1.4.kg
Drafting area	
x-axis	190 mm
y-axis	45 mm
Mechanical resolution (steps)	0.01 mm
Display	36 characters, cursor, and status
POWER ADAPTER	110–240V + 10%, 50/60 Hz
Voltage	
Power consumption	40W
Dimensions	150 x 95 x 50

The NC-Scriber CS100 – when will your workplace be complete?



### Carrying Case

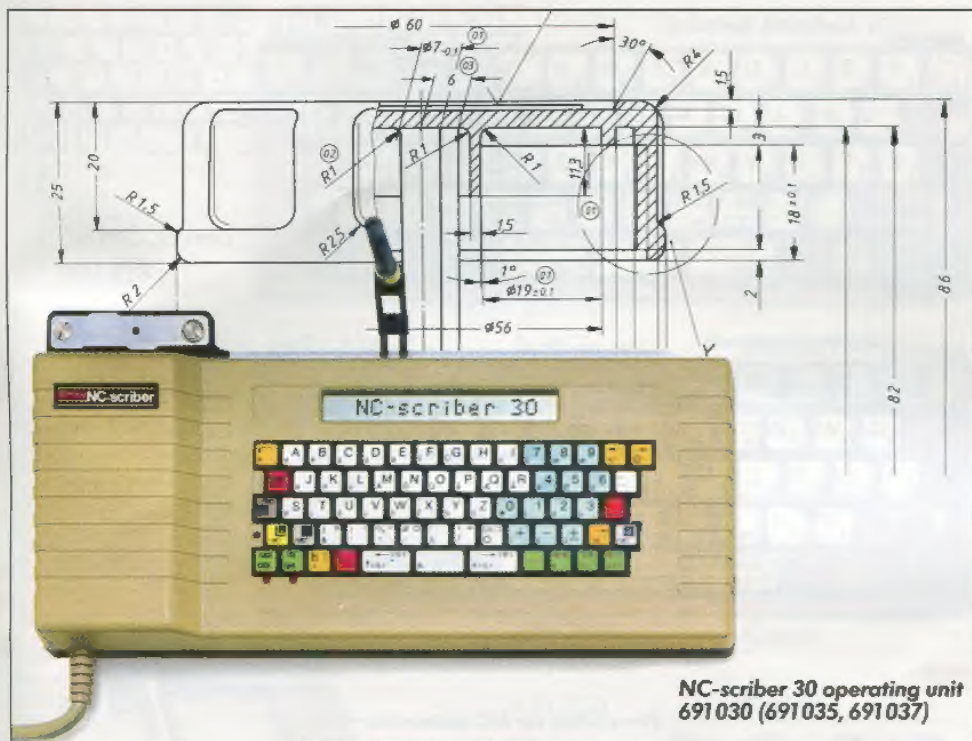
The NC-Scriber CS100 with power adapter and memory modules can be safely and conveniently stored and carried in the attractive carrying case.

Article no. 691156

# rotring

Head Office: Strathcona Road, Wembley,  
Middlesex HA9 8QP.  
Telephone: 01-908 2577 Telex: 266145  
Fax: 01-908 4580  
24hr message service: 01-908 4476.





### NC-scriber 30

Our powerful top-of-the-line scriber model with extensive programming capabilities and PC connectivity.

#### NC-scriber 30 operating units

- 691030  $\alpha$
- 691035 TW (Qwerty)
- 691037 TW with special technical mathematical symbols
- 6910392 Left-handed version

FD 3210 diskette drive  
691531



NC-ad 3010 control unit  
691530

NC-ad 3010 control unit  
691530

NC-plotscriber 21 operating unit  
691450

FD 3210 diskette drive, 3 1/2", 608 K  
for NC-ad 3010 control unit  
691531

### NC-plotscriber

Frame plotter with 410 x 290 mm draughting area (390 x 290 mm if pen station is used) for any paper size, for lettering, symbols, and plots of entire assemblies (macros). Powerful features, such as digitizing of symbols, X/Y coordinate displays, and separate function keys, make working with the NC-plotscriber easy and efficient.

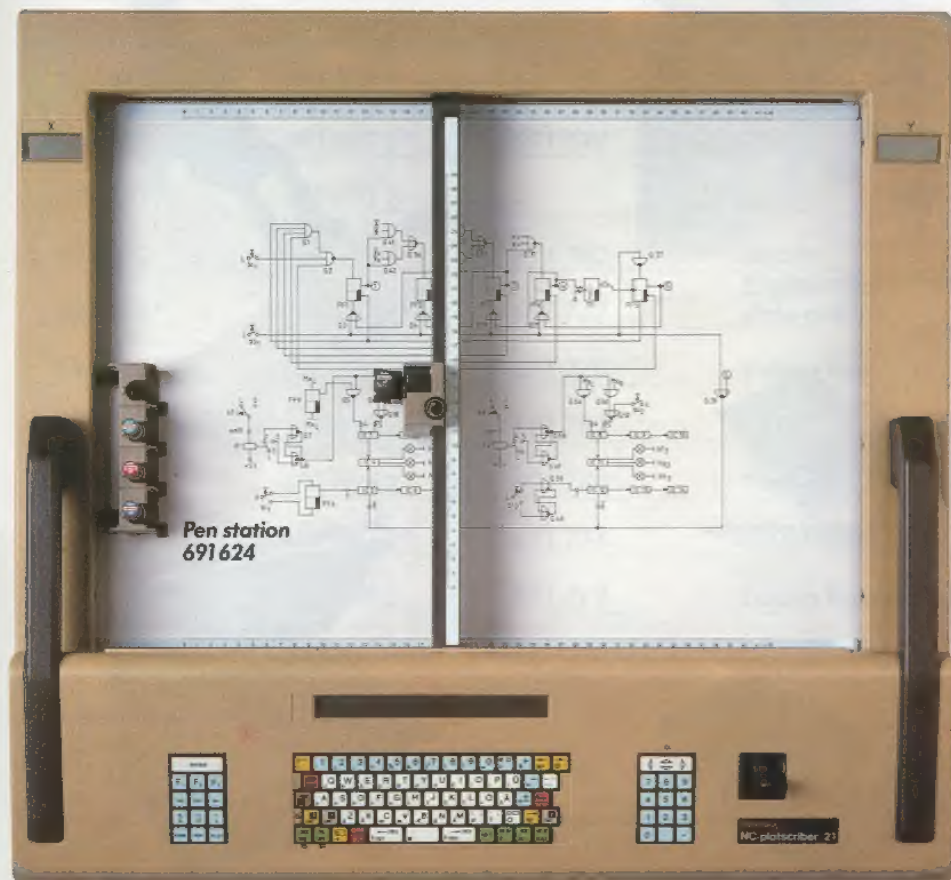
#### NC-plotscriber 21 operating unit

(can be run only in conjunction with NC-ad 3010 control unit).

691450

#### Pen station for NC-plotscriber 21

691624



A ready-to-run NC-scriber or NC-plotscriber system consists of:

NC-ad 3010 control unit

Operating unit\* (NC-scriber 30 or NC-plotscriber)

Lettering cassette\* (as selected by user)

\* Qwerty (TW) or alphabetical ( $\alpha$ ) keyboard format

We reserve the right to make technical changes.



## Special keyboards

The special keyboards require the use of the appropriate lettering-style cassettes.

### ***α-keyboard***

in alphabetical order with technical/mathematical symbols

691 511 for NC-scriber 30

691 512 for NC-plotscriber 21

### ***Qwerty-keyboard***

with keys arranged as on a typewriter

691 635 for NC-scriber 30

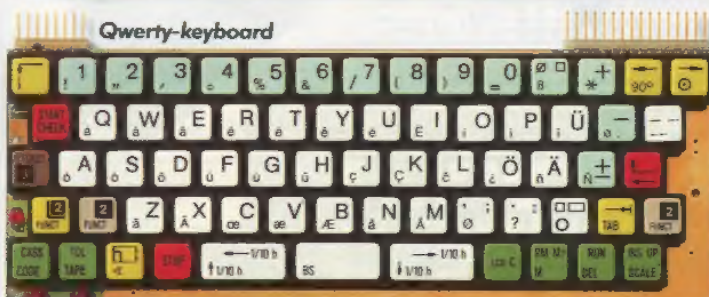
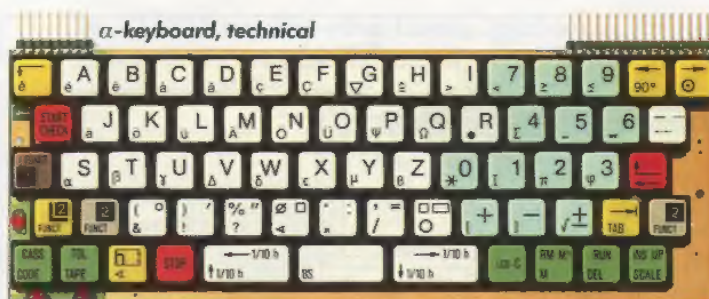
691 473 for NC-plotscriber 21

### ***Qwerty-keyboard, technical***

with technical/mathematical symbols

691 532 for NC-scriber 30

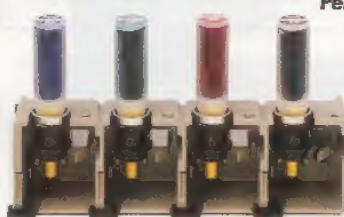
691 533 for NC-plotscriber 21



## Pen station

The pen station for 4 draughting tools can be mounted on the plotscriber 21 frame. It offers the possibility of changing pens, either via the keyboard or by program instruction, for drawing with different line thicknesses of colours. A second pen station can be mounted to give a choice of 8 draughting tools. The technical pen sealing unit ensures that pens write first time of asking, even after several hours of non-use.

691 624



Pen station for NC-plotscriber



## HPGL code cassette for NC-scriber 30

691 331 (not illustrated)

## Digitising viewfinder

is screwed into the draughting head of the NC-plot-scriber 21 for highly accurate digitising. The viewfinder can also be used in the pen station by means of the adaptor supplied with the unit.

691 427

## Adaptor for fibre tips

The adaptor is screwed into the scriber arm instead of the technical pen. The clamping mechanism of the adaptor is capable of holding writing instruments of up to 11 mm in diameter.

691 659



Digitising viewfinder

Adaptor for fibre tips



## Memory extension for NC-scriber 30

691 507 12-KByte

691 688 44-KByte

## Multi-cassette adaptor CS3110

allows cassettes to be selected via the keyboard instead of changing them round manually in the control unit.

The cassette depot has 6 cassette slots. By connecting two cassette depots a total of 12 cassette slots can be used.

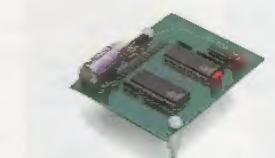
691 661

## Transport and storage case

(similar to photo equipment case) for safe storage and transport of NC-scriber 30 including control unit, operating unit, control cable, operating instructions and additional cassettes.

Colour: black/silver.

691 516



Memory extension

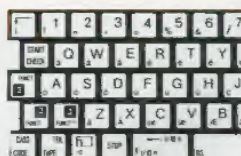
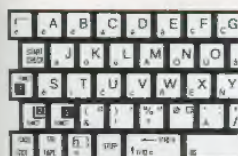


Multi-cassette adaptor



Transport and storage case





Q

TW

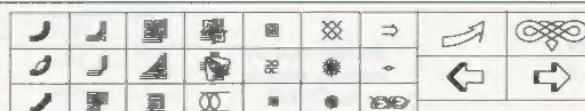
for NC-30 and plotscriber	for CS 100			
691 828	691 829	built-in	ISO 3098 I	abcdefghijklmnopqrstuvwxyzß ABCDEFGHIJKLMNOPQRSTUVWXYZ
691 831	691 834	built-in	ISO 3098 techn.	abcdefghijklmnopqrstuvwxyzß ABCDEFGHIJKLMNOPQRSTUVWXYZ
691 837	691 838	built-in	DIN 17	abcdefghijklmnopqrstuvwxyzß ABCDEFGHIJKLMNOPQRSTUVWXYZ
691 871	691 872	691 751	DIN 1451	abcdefghijklmnopqrstuvwxyzß ABCDEFGHIJKLMNOPQRSTUVWXYZ
691 832	691 833	built-in	Universal	abcdefghijklmnopqrstuvwxyzß ABCDEFGHIJKLMNOPQRSTUVWXYZ
691 826	—	691 752	Greek	αβγδεζηθικλμνξοπρστυφχψως ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
691 844	—	691 753	Cyrillic	абвгдежзйкклмнопрстфхцчшщъь АБВГДЕЖЗИЙКЛМНОПРСТУФХЦЧШЩ
691 827	—	—	Arabic I	ث ق ض ط ذ د ف ه و ث ق
691 840	—	—	Arabic II	ث ق ض ط ذ د ف ه و ث ق
691 880	—	—	Katakana	アイウエオカキクケコサシスセソタチツテトナ ノハヒフヘホマミムメモヤユヨラリルレロワ
691 885	691 885 2	691 771	Block outline	abcdefghijklmnopqrstuvwxyz
691 886*	691 886 2*	691 770	Block medium	abcdefghijklmnopqrstuvwxyz
691 890*	691 890 2*	691 772	Block light	abcdefghijklmnopqrstuvwxyz
691 888*	691 888 2*	691 775	Romanic outline	abcdefghijklmnopqrstuvwxyz
691 889	691 889 2	691 773	Gothic light	abcdefghijklmnopqrstuvwxyzß A
691 887*	691 887 2*	691 774	Mascot outline	abcdefghijklmnopqrstuvwxyzß A
691 891	691 891 2	—	LCD	ABCDEFGHIJKLMNOPQRSTUVWXYZ
691 892	691 892 2	691 782	Bonne	abcdefghijklmnopqrstuvwxyz
691 893*	691 893 2*	691 777	English old style outline	abcdefghijklmnopqrstuvwxyzß
691 895	691 895 2	691 778	Futura Pen	abcdefghijklmnopqrstuvwxyz ABC
691 896	691 896 2	691 781	Univers 57 outline	abcdefghijklmnopqrstuvwxyz
691 894	691 894 2	691 780	Tectona	abcdefghijklmnopqrstuvwxyz
691 897*	691 897 2*	691 776	Garamond Pen	abcdefghijklmnopqrstuvwxyz ABC
—	691 898 2	691 779	Futura Round Pen	abcdefghijklmnopqrstuvwxyzß ABC

\* Supplied on 2 cassettes.

The software conversion kit Art. 88 761 is required for NC-scribers up to serial No. 35 483 210.  
Not required for the NC-plotscriber.

Symbol-Cassette  
Decora  
691 881

691 351





The symbols shown represent only a sampling of the symbols on each cassette.

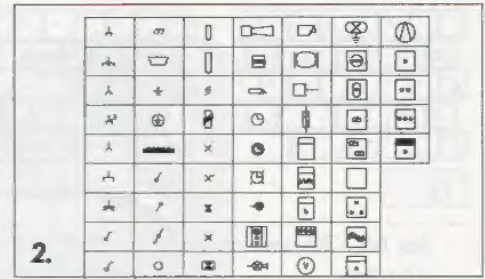
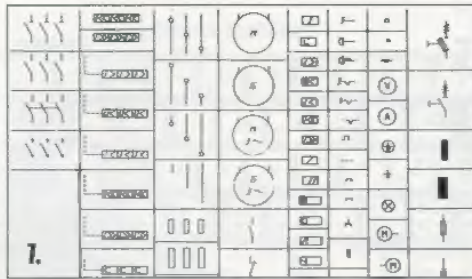
## 1. Electrical engineering I

691 227 NC-30  
691 707 plotscriber

double capacity  
memory module  
for CS 100  
**691353**  
contains 1 and 2.

## 2. Electrical engineering II

691 228 NC-30



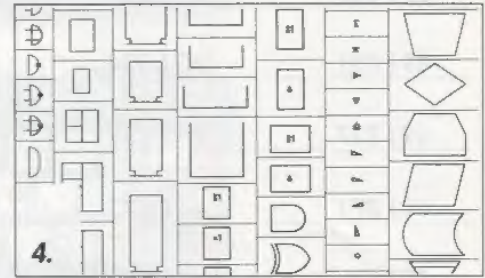
## 3. Electronics I

691 224 NC-30  
691 710 plotscriber

double capacity  
memory module  
for CS 100  
**691354**  
contains 3 and 4.

## 4. Electronics II

691 225 NC-30  
691 711 plotscriber



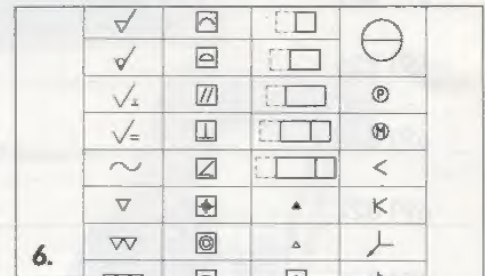
## 5. Process engineering

691 328 NC-30  
691 716 plotscriber

for CS 100  
**691357**

## 6. Mechanical engineering

691 122 NC-30



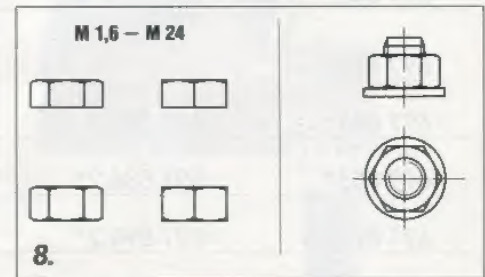
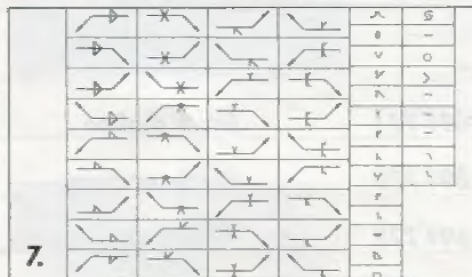
## 7. Welding symbols

691 123 NC-30

double capacity  
memory module  
for CS 100  
**691358**  
contains 6, 7  
and 8.

## 8. Screws, nuts and accessories

691 119 ISO, NC-30  
691 121 DIN, NC-30



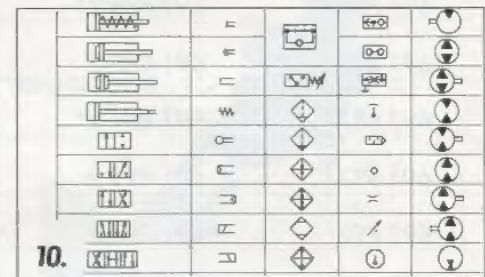
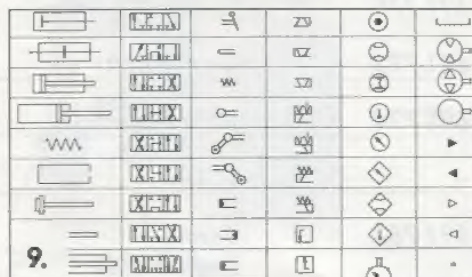
## 9. Hydraulics + Pneumatics I

691 124 NC-30  
691 713 plotscriber

double capacity  
memory module  
for CS 100  
**691355**  
contains 9 and 10.

## 10. Hydraulics + Pneumatics II

691 125 NC-30  
691 714 plotscriber



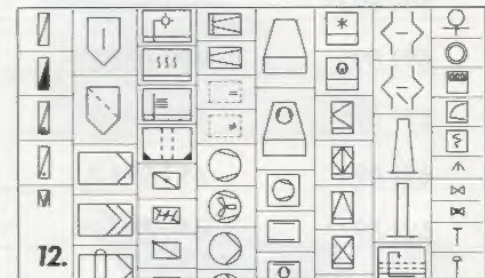
## 11. Heating and Plumbing I

691 325 NC-30

double capacity  
memory module  
for CS 100  
**691356**  
contains 11 and 12.

## 12. Heating and Plumbing II

691 326 NC-30



## 13. Architecture I

691 323 NC-30

double capacity  
memory module  
for CS 100  
**691352**  
contains 13 and 14.

## 14. Architecture II

691 324 NC-30

